Claims

We claim

- 1 1. A multi-user collaborative graphical user interface for displaying items,
- 2 comprising;
- a display area having a horizontal orientation, the display surface
- 4 positioned between the multiple users, the display area having a centroid
- 5 and a circumference;
- 6 a plurality of work areas partitioned from the display area, there being
- 7 one working area for each user of the multiple users; and
- 8 means for orienting a displayed item in a particular working area
- 9 using a global polar coordinate system centered on the centroid.
- 1 2. The interface of claim 1, further comprising:
- 2 means for selecting a control point for a particular displayed item;
- 3 and
- 4 means for orienting the displayed item in the particular working area
- 5 using a local polar coordinate system centered on the a control point.
- 1 3. The interface of claim 1, further comprising:
- 2 means for displaying a control panel in each work areas, there being
- 3 one control panel for each of the plurality of users; and
- 4 means for orienting the control panel in the particular working area
- 5 using the global polar coordinate system centered on the centroid.

- 1 4. The interface of claim 1, in which the display area is circular.
- 1 5. The interface of claim 1, in which the display area is rectangular.
- 1 6. The interface of claim 1, in which the control panel only controls items
- 2 displayed in the corresponding work area.
- 1 7. The interface of claim 1, in which the item includes a title, a hyperlink,
- 2 and an image.

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- 8. The interface of claim 1, in which a corner of the item includes a resize
- 2 area, and wherein a resizing scale factor is based on a distance from the
- 3 resizing area o the control point.
- 9. The interface of claim 1, in which the display area is partitioned by radii
- 2 extending from a centroid of the work area to a perimeter of the work area.
- 1 10. The interface of claim 1, in which each work area has associated
- 2 appearance attributes.
- 1 11. The interface of claim 1, in which each work area has associated
- 2 operation attributes.